

WHAT IS CLAIMED IS:

1. A thermoplastic binder composition comprising an aqueous solution of a poly(hydroxy amino ether) in a mono-functional acid.
2. The composition of Claim 1 wherein the mono-functional acid is propanoic acid, butanoic acid, glycolic acid, lactic acid, hydrochloric acid and phosphoric acid.
3. An article comprising fibers bonded together with a binder composition comprising an aqueous solution of a poly(hydroxy amino ether) in a mono-functional acid.
4. The article of Claim 3 wherein the poly(hydroxy amino ether) is employed in an amount sufficient to bind the fibers together so that the bonded fibers exhibit structural integrity.
5. The article of Claim 4 wherein the poly(hydroxy amino ether) is employed in an amount of from 0.01 to 20 weight percent based on the total weight of fibers and poly(hydroxy amino ether) employed.
6. The article of Claim 5 wherein the poly(hydroxy amino ether) is employed in an amount of from 0.1 to 10 weight percent, based on the total weight of fibers and poly(hydroxy amino ether) employed.
7. A process for recovering the binder and fibers from articles comprising fibers bonded with an aqueous solution of a poly(hydroxy amino ether) in a mono-functional acid which comprises contacting the bonded fibers with an aqueous acid solution to dissolve the poly(hydroxy amino ether) and then separating and recovering the PHAE from the acid-PHAE mixture.
8. The process of Claim 7 wherein the acid is propanoic acid, butanoic acid, glycolic acid, lactic acid, hydrochloric acid or phosphoric acid.
9. A thermoplastic binder composition comprising an aqueous solution of a poly(hydroxy ether) in a mono-functional acid.
10. The composition of Claim 9 wherein the mono-functional acid is propanoic acid, butanoic acid, glycolic acid, lactic acid, hydrochloric acid or phosphoric acid.

11. An article comprising fibers bonded together with a binder composition comprising an aqueous solution of a poly(hydroxy ether) in a mono-functional acid.

12. The article of Claim 11 wherein the poly(hydroxy amino ether) is employed in an amount sufficient to bind the fibers together so that the bonded fibers exhibit structural integrity.

13. The article of Claim 12 wherein the poly(hydroxy amino ether) is employed in an amount of from 0.01 to 20 weight percent based on the total weight of fibers and poly(hydroxy amino ether) employed.

14. The article of Claim 13 wherein the poly(hydroxy amino ether) is employed in an amount of from 0.1 to 10 weight percent, based on the total weight of fibers and poly(hydroxy amino ether) employed.

15. A process for recovering the binder and fibers from articles comprising fibers bonded with an aqueous solution of a poly(hydroxy ether) in a mono-functional acid which comprises contacting the bonded fibers with an aqueous acid solution to dissolve the poly(hydroxy amino ether) and then separating and recovering the PHAE from the acid-PHAE mixture.

16. The process of Claim 15 wherein the acid is propanoic acid, butanoic acid, glycolic acid, lactic acid, hydrochloric acid or phosphoric acid.